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Q-1 - 34100702

Which one of the following statements is not correct?

- (A) Offspring produced by the asexual reproduction are called clone
  - (B) Microscopic, motile asexual reproductive structures are called zoospores
  - (C) In potato, banana and ginger, the plantlets arise from the internodes present in the modified stem
  - (D) Water hyacinth, growing in the standing water, drains oxygen from water that leads to the death of fishes
-

CORRECT ANSWER: C

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SOLUTION:

Statement (c) is incorrect as in potato, banana and ginger new plantlets always arise from the nodes of the modified stem. Internodes are the area between the two nodes.

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Q-2 - 34100706

Match Column-I with Column-II and select the correct option using the codes given below

Column-I

- (A) Pistils fused together
- (B) Formation of gametes
- (C) Hyphae of higher Ascomycetes
- (D) Unisexual female flower

Column-II

- (i) Gametogenesis
- (ii) Pistillate
- (iii) Syncarpous
- (iv) Dikaryotic

(A)  $\begin{matrix} A & B & C & D \\ 4 & 3 & 2 & 1 \end{matrix}$

(B)  $\begin{matrix} A & B & C & D \\ 2 & 1 & 4 & 3 \end{matrix}$

(C)  $\begin{matrix} A & B & C & D \\ 1 & 2 & 4 & 3 \end{matrix}$

(D)  $\begin{matrix} A & B & C & D \\ 3 & 1 & 4 & 2 \end{matrix}$

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CORRECT ANSWER: D

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SOLUTION:

(a) Pistils fused together - Syncarpous

(b) Formation of gametes- Gametogenesis

(c) Hyphae of higher ascomycetes-Dikaryotic

(d) Unisexual female flower-Pistillate

Concept Enhancer Always remember, in Biology the latin word "Syn" signifies togetherness or fusion.

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Product of sexual reproduction generally generates

- (A) longer viability of seeds
  - (B) prolonged dormancy
  - (C) new genetic combination leading to variation
  - (D) large biomass
- 

CORRECT ANSWER: C

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SOLUTION:

Sexual reproduction leads to new genetic combination leading to variation in new products. Longer viability of seeds, prolonged dormancy and large biomass are not related to sexual reproduction.

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Vegetative propagation in mint occurs by

- (A) offset
  - (B) rhizome
  - (C) sucker
  - (D) runner
- 

**CORRECT ANSWER: C**

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**SOLUTION:**

Vegetative propagation in mint occurs by sucker. These develop from the nodes of underground stem and comes up obliquely above the ground in the form of shoots. It also takes place in Chrysanthemum.

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Why is vivipary an undesirable character for annual crop plants ?

- (A) It reduces the vigour of the plant
  - (B) It adversely affects the fertility of the plant
  - (C) The seeds exhibit long dormancy
  - (D) The seeds cannot be stored under normal conditions for the next season
- 

**CORRECT ANSWER: D**

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**SOLUTION:**

Vivipary is the condition when seeds germinate on the plant. It is an undesirable character for annual crop plants because germinated seeds cannot be stored under normal conditions for the next season.

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Q-6 - 34100725

During regeneration modification of an organ to other organ is known as

- (A) morphogenesis
- (B) epimorphosis
- (C) morphallaxis
- (D) acropetal growth

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**CORRECT ANSWER: B**

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**SOLUTION:**

Epimorphosis is the replacement of a lost organ of the body by proliferating new cells from the surface of the wound or injured part.

Morphogenesis (Gr. Morphe=form and genesis=origin) is the growth, shaping and arrangement of body parts according to genetically predefined patterns. The extent direction and rate of morphogenesis depend on genetic controls and environmental factors.

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Q-7 - 34100732

New Banana plants develop from

(A) rhizome

(B) sucker

(C) stolon

(D) seed

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CORRECT ANSWER: B

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## SOLUTION:

New banana plants develop through sucker, Sucker is the sub-aerial modification of stem which originates from the basal and underground portion of main stem. It grows obliquely upwards giving rise to leafy shoot or a new plant. It also occurs in mint. Chrysanthemum, etc.

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Q-8 - 34100728

A population of genetically identical individuals, obtained from asexual reproduction is

(A) callus

(B) clone

(C) deme

(D) aggregate

---

CORRECT ANSWER: B

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SOLUTION:

Clone refers to the population of genetically identical individuals obtained from asexual reproduction or produced vegetatively from single organism. An individual member of a clone is called ramete.

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Q-9 - 34100730

Vegetative reproduction of Agave occurs through

(A) rhizome

(B) stolon

(C) bulbils

(D) sucker

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CORRECT ANSWER: C

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SOLUTION:

Vegetative propagation of Agave occurs by bilbils. These are condensed axillary bud capable of giving rise to shoots, i.e. independent plant.

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Q-10 - 34100719

In which one pair, both the plants can be vegetatively propagated by leaf pieces ?

(A) Agave and Kalanchoe

(B) Bryophyllum and Kalanchoe

(C) Asparagus and Bryophyllum

(D) Chrysanthemum and Agave

---

CORRECT ANSWER: B

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SOLUTION:

Marginal notches in Kalanchoe and Bryophyllum possess adventitious buds in their leaves for vegetative propagation.

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Q-11 - 34100713

The 'eyes' of the potato tuber represent

(A) flower buds

(B) shoot buds

(C) axillary buds

(D) root buds

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CORRECT ANSWER: C

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SOLUTION:

Tuber is oval or spherical swollen underground modified stem lacking adventitious roots. It possesses a number of spirally arranged depression called eyes. Each eye represents node and consists of 1-3 axillary buds in the axils of small scaly leaves.

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Q-12 - 34100723

In oogamy. Fertilization involves

(A) a small non-motile female gamete and a large motile male gamete

(B) a large non-motile female gamete and a small motile male gamete

(C) a large non-motile female gamete and a small non-motile male gamete

(D) a large motile female gamete and a small non-motile gamete

---

CORRECT ANSWER: B

---

SOLUTION:

In oogamouis type of sexual reproduction, the female gamete ( ovum/egg) is big. Passive while male gametes (spermatozoids) are smaller, active and motile.

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The process of series of changes from larva to adult after embryonic development is called

(A) regeneration

(B) metamorphosis

(C) growth

(D) ageing

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**CORRECT ANSWER: B**

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**SOLUTION:**

Metamorphosis (meta=change, morphe=form) is a process by which an animal undergoes a comparatively rapid change from larval to adult form. Regeneration is regrowth of the part of body which has been removed due to the injury or other causes. Growth is an increase in dry mass of an organism. Ageing is progressive

deterioration in activity of cell, tissues, organs, etc.

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Q-14 - 36805965

Offsets are produced by

- (A) parthenocarpy
- (B) mitotic divisions
- (C) meiotic divisions
- (D) parthenogenesis

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CORRECT ANSWER: B

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SOLUTION:

Offsets are produced by mitotic divisions .

They are one internode long runners that occur in some

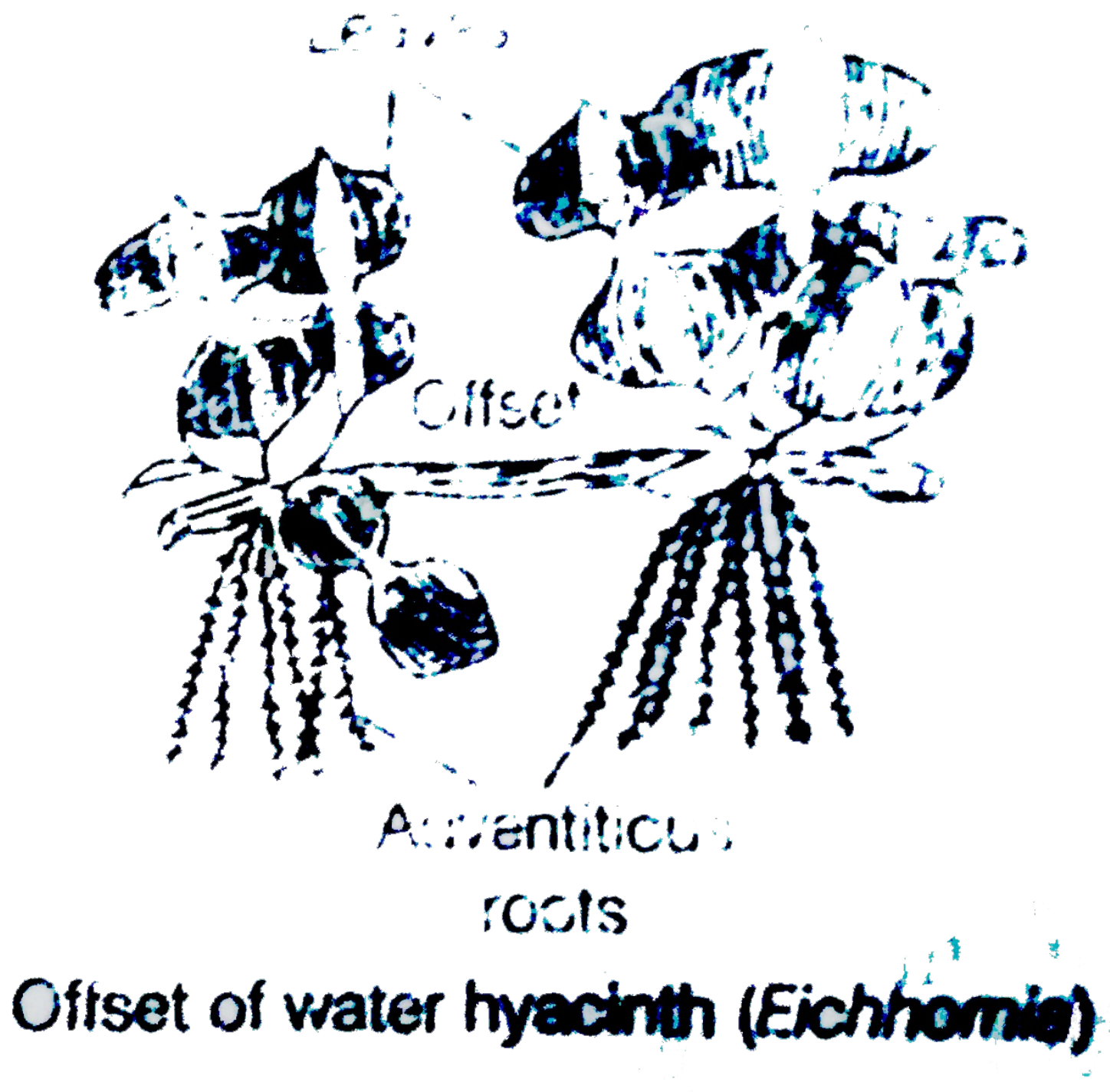


aquatic plants . Breaking of offsets helps in vegetative propagation . They give rise to new plants , e.g.

Eichhornia . Meiotic divisions occur in only germ cells .

Parthenocarpy is the development of seedless fruits .

Parthenogenesis can be defined as the development of an egg into a complete individual without fertilisation .



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Sweet potato is a modified

(A) tap root

(B) adventitious root

(C) stem

(D) rhizome

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**SOLUTION:**

Sweet potato is a modified adventitious root which is meant for storage of food. It does not assume a definite shape and occurs singly.

Tap roots develop from the radicle of the embryo. They gradually become narrow towards the tip. Stem is usually the above-ground erect ascending part of the plant body. It bears leaves and flowers. Rhizome is modified underground stem, e.g., *Zingiber officinale*.

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Q-16 - 55656323

Which of the following flowers only once in its life-time

(A) Papaya

(B) Mango

(C) Jackfruit

(D) Bamboo species

---

CORRECT ANSWER: D

Q-17 - 55656319

Which one of the following is wrong about Chara

- (A) Gobule is male reproductive structure
  - (B) Upper oogonium and lower round antheridium
  - (C) Globule and nucule present on the same plant
  - (D) Upper antheridium and lower oogonium
- 

CORRECT ANSWER: D

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Q-18 - 55656316

Why asexual reproduction is sometimes disadvantageous ?

- (A) It allows animals that do not move around to produce offspring without findingmate
- (B) it allows an animals to produce many offspring quickly

(C) it save the time and energy of gamete production

(D) it produce genetically uniform populations

---

CORRECT ANSWER: D

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Q-19 - 55656311

Dentrification is carried out by

(A) Pseudomonas

(B) Nitrobacter

(C) Nitrosomonas

(D) Nitrococcus

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CORRECT ANSWER: A

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Q-20 - 55656293

Which of the following is pollinate by water

- (A) Viola
- (B) Yucca
- (C) Oxalis
- (D) Commelina

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Q-21 - 55656295

The term parthenogenesis was coined by

- (A) Owen
- (B) Bovri
- (C) Balfour

(D) Grobber

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CORRECT ANSWER: A

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Q-22 - 55656288

Which one of the following processes results in the formation of clone of bacteria ?

(A) Binary fission

(B) Conjugation

(C) Transformation

(D) Transduction

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CORRECT ANSWER: A

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Which one of the following animals possesses high regeneration capacity?

(A) Planaria

(B) Taenia

(C) Salpa

(D) Periplaneta

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CORRECT ANSWER: A

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Which of the following animals is having longitudinal binary fission



(A) Euglena

(B) Plasmodium

(C) Planaria

(D) Paramecium

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CORRECT ANSWER: A

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Q-25 - 55656314

The endosperm cells in angiosperms are

(A) haploid

(B) diploid

(C) triploid

(D) tetraploid

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CORRECT ANSWER: C

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Q-26 - 55656310

Both, autogamy and geitonogamy are prevented in

(A) Papaya

(B) cucumber

(C) castor

(D) maize

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CORRECT ANSWER: A

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Q-27 - 55656291

Vegetative propagation in Pistia occurs by

(A) stolon

(B) offset

(C) runner

(D) sucker

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CORRECT ANSWER: B

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Q-28 - 55656280

Exponential growth occur in

(A) yeast

(B) asexual reproduction

(C) bacteria

(D) all of these

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CORRECT ANSWER: B

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Q-29 - 55656270

In which of the following organisms, self fertilization is seen ?

(A) Fish

(B) Roundworm

(C) Earthworm

(D) Tapeworm

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CORRECT ANSWER: D

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Q-30 - 55656266

A scion is grafted to a stock. The quality of fruits produced will be

determined by the genotype of -

(A) stock

(B) scion

(C) both stock and scion

(D) neither stock nor scion

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CORRECT ANSWER: B

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Q-31 - 55656263

Ramet is

(A) clone

(B) callus

(C) cell aggregate

(D) individual member of clone

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CORRECT ANSWER: D

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Q-32 - 55656261

Grafting in sugarcane can not be performed because

(A) vascular bundles are scattered

(B) phloem is internal to xylem

(C) sugarcane plant is delicate

(D) it is unable to bear injury

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CORRECT ANSWER: A

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Q-33 - 55656255

Menstrual cycle occurs in

(A) old world monkeys

(B) apes

(C) humans

(D) all of these

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CORRECT ANSWER: D

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Q-34 - 55656268

Maximum life span of Eagle is

(A) 90 years

(B) 15 years

(C) 10 years

(D) 5 years

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CORRECT ANSWER: A

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Q-35 - 55656309

Ovule integument gets transformed into

(A) seed

(B) fruit wall

(C) seed coat

(D) cotyledons

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CORRECT ANSWER: C

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Q-36 - 55656265



Which of the following groups of plants are propagated through underground root

- (A) Bryophyllum and Kalanchoe
  - (B) Pistia, Chrysanthemum and Pineapple
  - (C) Ginger , Potato, Onion, Zamikand
  - (D) Swee Potato, Asparagus, Tapioca and Dahlia
- 

CORRECT ANSWER: D

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Q-37 - 55656262

In a grafted plant, stock has 48 chromosomes while scion has 24 chromosomes. The chromosome number for root cells and eggs are

- (A) 48 and 24

(B) 24 and 24

(C) 24 and 12

(D) 48 and 12

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CORRECT ANSWER: D

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Q-38 - 55656253

Plasmotomy occurs in

(A) Hydra

(B) Obelia

(C) Opalina

(D) Plasmodium

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CORRECT ANSWER: C

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Q-39 - 55656250

The terminal irreversiable stage of ageing is called

- (A) autogamy
  - (B) syngamy
  - (C) senescence
  - (D) cytogames
- 

**CORRECT ANSWER: C**

Q-40 - 55656248

Mango and Guava are propagated through

(A) tissue culture

(B) grafting

(C) stem cuttings

(D) layering

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**CORRECT ANSWER: B**

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Q-41 - 55656260

Induction of rooting on stems before separating them from parent plant is

(A) grafting

(B) layering

(C) root-stem joint

(D) cutting

---

CORRECT ANSWER: B

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Q-42 - 55656254

Gemmule formation occurs in

(A) fresh water sponge

(B) some marine spomges

(C) Labeo rohita

(D) Both (1) and (2)

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CORRECT ANSWER: D

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Q-43 - 55656246

Natural parthenogenesis is found in

- (A) aphids
  - (B) honey bees
  - (C) wasps
  - (D) all the above
- 

CORRECT ANSWER: D

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Q-44 - 55656258

In grafting stock and scion ought to be joined

- (A) Phloem to phloem
- (B) xylem to xylem
- (C) pith to pith

(D) cambium to cambium

---

CORRECT ANSWER: D

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Q-45 - 55656240

Vegetative propagation plays a vital role in

(A) sericulture

(B) apiculture

(C) silviculture

(D) horticulture

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CORRECT ANSWER: D

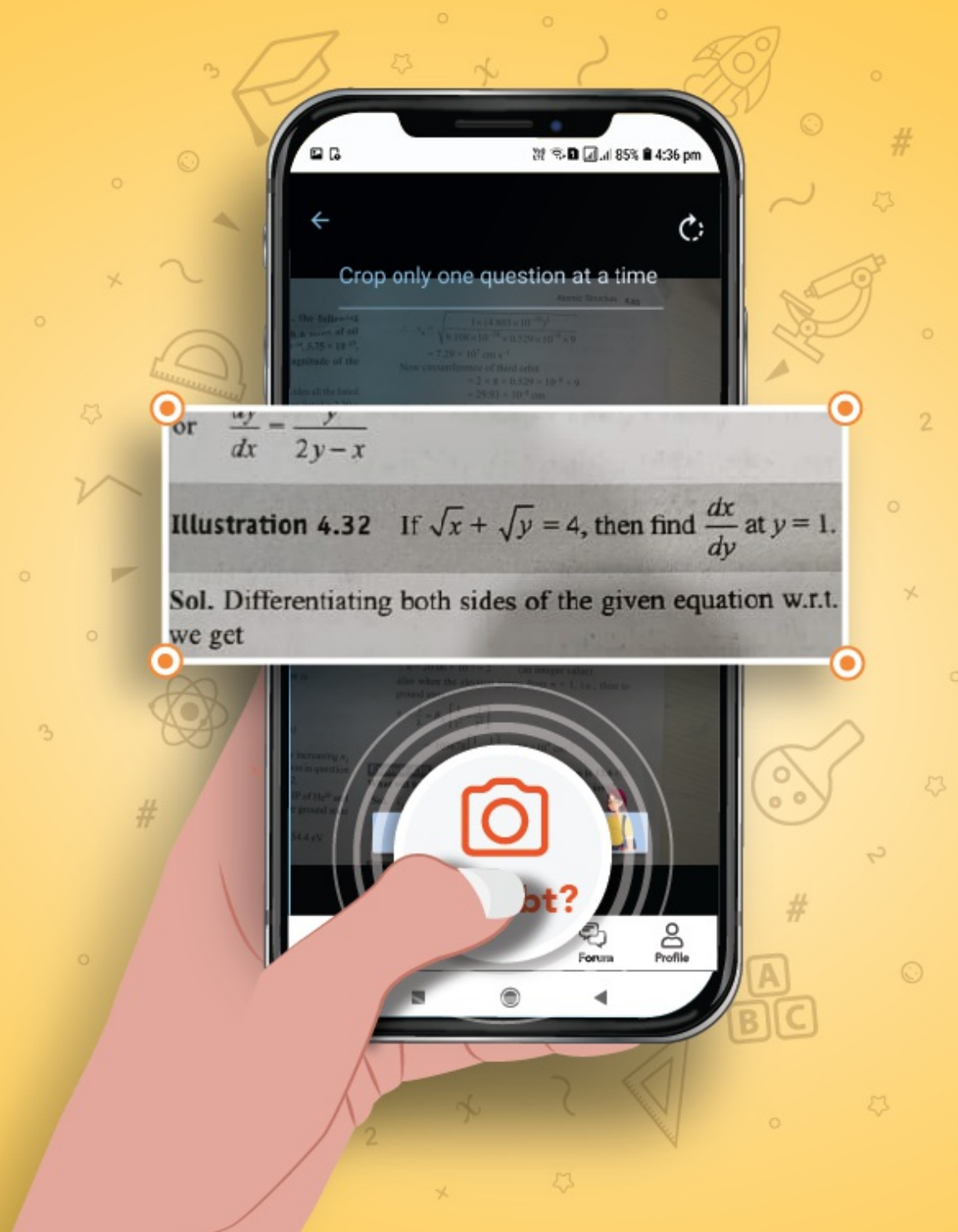
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